AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-26. Canceled.

27. (Previously Presented) A method for determining a mask-fit test pressure to be applied to a wearer's mask by ventilatory assistance apparatus, wherein the mask-fit pressure is adaptively dependent on a prior pressure treatment session of the wearer, said mask-fit test pressure not being significantly different than pressures encountered in normal use of the wearer during the prior treatment session, said mask-fit pressure being greater than a minimum pressure and less than a maximum pressure encountered during the prior treatment session.

28. (Currently Amended) ~~In~~ A method for determining mask-fit pressure to be applied to a wearer's mask by a continuous positive airway pressure apparatus having an automatic titration mode that delivers a flow of pressurized breathable gas to ~~a~~ the wearer's mask, ~~a method for determining of a mask-fit pressure to be applied to the wearer's mask by the apparatus,~~ said method comprising:

measuring by a pressure sensor the mask pressure used by the wearer during a treatment session; and

determining a mask fit test pressure from the pressures used by the wearer during the treatment session, said mask-fit test pressure not being significantly different than pressures encountered in normal use of the wearer during the treatment session.

Claims 29-56. Canceled.

57. (Previously Presented) The method of claim 27, wherein the mask-fit test pressure is determined based on a prior use by comparing leak flow to a threshold leak flow value.

58. (Previously Presented) The method of claim 57, wherein leak flow is determined over a predetermined time period.

59. (Previously Presented) The method of claim 58, wherein the leak flow is determined based on a time constant of about 10 seconds.

60. (Previously Presented) The method of claim 27, wherein the method is practiced with a CPAP device having two functional modes.

61. (Previously Presented) The method of claim 27, wherein determining the mask-fit pressure includes sampling of pressure signals in a gas supply assembly associated with the mask.

62. (Previously Presented) The method of claim 61, wherein the sampling of pressure signals occurs in a delivery tube of the gas supply assembly.

63. (Previously Presented) A method for determining a mask-fit test pressure to be applied to a wearer's face by ventilatory assistance apparatus, wherein:

1043675

the mask-fit pressure is adaptively dependent on a prior pressure treatment session of the

wearer,

determining the mask-fit pressure includes sampling of pressure signals in a gas supply

assembly associated with the mask, and

the sampling of pressure signals occurs in a blower of the gas supply assembly.

64.   (Previously Presented) The method of claim 61, wherein the sampling of pressure

signals occurs at predetermined intervals.

65.   (Previously Presented) The method of claim 64, wherein sampling occurs at about

20 millisecond intervals.

66.   (Previously Presented) The method of claim 61, wherein the sampling of the

pressure signals includes determining a flow of gas in the mask and generating a delivery

pressure signal.

67.   (Previously Presented) A method for determining a mask-fit test pressure to be

applied to a wearer's face by ventilatory assistance apparatus, wherein:

the mask-fit pressure is adaptively dependent on a prior pressure treatment session of the

wearer,

determining the mask-fit pressure includes sampling of pressure signals in a gas supply

assembly associated with the mask, and

1043675

determining the mask-fit pressure also includes processing the sampled pressure signals and producing a control signal based on the processed signals, wherein the control signal is provided to a motor to provide a determined treatment pressure.

68.   (Previously Presented) The method of claim 67, further comprising comparing a signal representative of actual delivery pressure with the control signal.

69.   (Previously Presented) The method of claim 27, further comprising varying at least one setting relating to test pressure intervals, test pressure period, and determined test pressure.

70.   (Previously Presented) The method of claim 60, wherein the first mode is a manual mode and the second mode is an automatic titration mode, and wherein:

in the manual mode, the test-fit pressure is the current set treatment pressure, and

in the automatic titration mode, the test-fit pressure is a percentile pressure of the prior treatment session.

71.   (Previously Presented) The method of claim 70, wherein the test-fit pressure is a base pressure if data from said prior treatment session is not available.

72.   (Previously Presented) The method of claim 27, wherein pressure data from said prior treatment session is available if the prior treatment pressure occurred for at least a predetermined time interval.

1043675

73.   (Previously Presented) The method of claim 72, wherein the predetermined time interval is about 3 hours.

1043675